

WE CLAIM

6. The generator of claim 1 including a perforated gas distribution plate on which said metallic material is disposed, said plate being disposed in said housing downstream of said flange in the direction of flow of said halide gas in said generator.

7. A method of reducing air leakage into a metal halide gas generator, comprising providing a seal comprising a polymeric material between a housing and a base of said generator, heating a metallic charge in said housing, flowing a halide gas over said heated metallic material to effect a reaction to generate a metal halide gas, and cooling a region of said housing proximate said seal.

8. The method of claim 7 wherein said seal comprises an O-ring seal disposed between said housing and said base.

9. The method of claim 7 including connecting an inlet fitting on said base to a source of halide gas using a zero clearance fitting.

10. The method of claim 7 including connecting an outlet fitting on said housing to an outlet conduit using a zero clearance fitting.

11. The method of claim 7 wherein said metallic charge is disposed on a perforated gas distribution plate disposed in said housing downstream of said seal.

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